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Portugal

A. General

Periodic serious outbreaks of anisal diseases have imposed a heavy burden on Portugal's agricultural programs and have delayed planned self-sufficiency in livestock and livestock products. Portugal's veterinary services, despite relatively strong manpower resources, have been unable to effectively cope with destructive anisal disease invasion or provide the necessary improvements in anisal he lith and canagement. In 1957 the veterinary service was reorganized in an attempt to improve the deficiencies resulting from a system obviously out of date, established in 1918. It is too early to determine whether or not this reorganization will affect anisal health and livestock productivity but, despite the occurrence of at least three major episcotics in the past four-year period, there has been a moderate but steady increase in earlie and sheep production. However, pig and partly attributed to the seriors outbreaks of hop cholera and African swine fever occurring in the past four years.

The contributions of livestock and livestock products from the Azores and

Madeiras to Portugal are small, since most of these products are consumed locally.

Animal discusses communicable to man are relatively well controlled in Portugal
but sanitary precautions for processing and marketing livestock products leave much
to be desired. Centralized povernment control over local sanitary supervision of

livestock products does exist, but the functional aspects are left to municipal or private services of variable efficiency. Furthermore, the inspection and quarantine services designed to prevent introduction of diseases from outside sources have proved ineffective. At least a part of the animal health and sanitation problems in Fortugal stem from a lack of financial support for essential programs.

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- 1. Topography and climate Continental Portugal, about the size of the state of Indiana, has limited land resources for a livestock industry capable of providing adequate animal products for its 8,300,000 human population. Only about one-fifth of the snable land, which constitutes h0 percent of the total land area, is used for livestock production. A large share of pasture or grasing areas are in low-producing mountain areas of the north or in arid cork growing areas of the south. The overseas metropolitan territories of the Hadeiras and Asores potentially capable of some increased livestock increases are currently barely supplying local requirements.
- 2. Socio-economic pattern There is very little specialized livestock production in Portugal. Nost of the cattle arc small native type used principally for draft power. Soine, sheep and goats are kept by small holders with little knewledge of modern breeding or management improvement. The average Portuguese farmer is suspicious of sovernment intervention in both livestock management and animal health matters. Control over sanitary processing of livestock products in rural areas is neglected.

3. Animal and plant life

a. Animals

- (1) Flies Gnats, sand flies (Culicoides), are vectors of bluetongue, a serious virue disease of sheep introduced into Portugal in 1956.
- (2) Ticks and mites A considerable variety of ticks transmitting a number of important diseases have been identified in Portugal. A number of mites are also responsible for severe debilitating conditions in sheep and swime. The more important ones and the diseases they cause, or are responsible for transmitting, are:

vector	<u> Visease</u>
Boophilus spp. Haemaphysalis spp. Indes ricinus (Linn.)	Babesiasia
Ixoles ricinus (Linn)	Anaplasmosis
Hyalozma rufipes glabatra	Rickettsiesis
Sarcoptes scablei	Mange
Paoroptes communis ovis	Sheep scab or scables

- (3) Mollusks Limnaca (Galba) trumcatula and Limnaca (Stagnicola)

 palustris are intermediate hosts of Fasziola hepatica, which causes severe liver

 damage in sheep and cattle.
- (h) forms A large number of worms cause scrious parasitism in livestock in Portugal. Several are of considerable public health significance. The more important ones and the conditions they produce are:

TOTAL	CONTILLION
Cysticercus cellulosae	pork messles
Cysticcrcus bovis	beef meanles
Tchinococcus granulosus	intestinal tapeworm infestations in canines hydatid disease in all domestic snimals
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Parasite	Condition	
Hematoda	gastroenteritis in all domestic animals	
Fasciola hepatica	liver fluke disease in sheep and cattle	
Dictyocaulus filaria	lung worm infestation of sheep	
Dictyocaulus viviparus	lung worm infestation of	

(5) Wild animals - Wolves (Canis lupus) may be of significance in the 9/11/19/29/30/59/60/spread of raties and its introduction from Spain.

b. Mutrition

- b. Food supply and distribution Continental Portugal imports some ment from foreign countries to augment its meager domestic production. The Madeiras and Azores are essentially self-sufficient and, in recent years, the Azores have been able to provide a small supply of specially inspected meat to the United States Air Force Base on the island of Terceira. Both Fortugal and the outlying islands are not exporters of milk and milk products and the Azores are supplying a considerable quantity of milk to the United States Air Force Base.
- c. Food sanitation, storage and technology Food sanitation, including the processing and marketing of milk and meat, is not of particularly high order even in the major urban areas. In rural areas methods of handling products of animal origin are primitive. In cities such as Lisbon and Oporto the inspection and distribution of meat and milk is supervised by veterinarians, and modern facilities have been developed. Refrigerated storage is available for handling the small volume of frozen meat imported from foreign countries.

In the Asores, modern milk and meat processing facilities have been established through the Assistance of the United States Air Force. The samitary processing of

these products is supervised by Portuguese veterinarians and the high standards

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required by U.S. military veterinary regulations are met.

2. Diseases of enimals -- Animal diseases in general are not well controlled and periodic extensive outbreaks of various diseases take a heavy tell. In recent years several exetic diseases have gained entry despite the application of quarantine and inspection procedures. Many of the animal health problems are considered relatively serious public health hazards, particularly because of the traditional tendencies of the people in many areas to consume raw or unprocessed livestock products.

a. Prevalent animal diseases

(1) African swine fever -- African swine fever, formerly confined to certain African regions, was introduced into Portugal probably from one of the country's colonial areas in 1957. In retrospect, the disease is caused by an extremely durable virus which is suspected of having been carried in meat or sausage scraps that ultimately were fed as garbage to swine. The disease spread rapidly through fifteen provinces and remained undiagnosed for some time because of its similarity to turopean type hog cholera.

Since no vaccine exists to protect swine against this highly virulent disease, losses were extremely heavy in 1957 and 1958. Portuguese authorities reported the disease eradicated as a result of the swine slaughter and sanitary pro rams in 1958, but the disease respected in 1960 with even greater losses than in the 1957-58 outbreak. Furthermore, the disease invaded Spain in 1960 and is now a scrious threat to other important swine raising areas of Europe. Its possible eventual extension to the Americas has prompted the United States Department of Agriculture to establish

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a research project on the disease in Spain and also to participate in conducting a 1/12/17/18/38/12/61/training course in diagnosis at a Spainish research center.

- (2) Elustongus Elustongus, another serious African virus disease primarily affecting sheep, has also invaded Fortugal. The disease caused high mortality in 1956 and 1957, when it first appeared, but fortunately an effective vaccine had been developed in South Africa and, although the disease still exists in Fortugal and Spain, losses have been reduced considerably. However, research has revealed that an unknown reservoir of the virus probably exists and since the disease is transmitted by the ubiquitous <u>Culicoides</u> there is little hope of relief from the costly and constant requirement for annual immunication of the major part of Portugal's sheep population.
- (3) Fost-and-mouth disease At least two strains of the foot-and-mouth disease virus have been responsible for periodic outbreaks of this disease during the past ten years; a continuous reinfection takes place across the Spanish-Portugal frontier. In addition to vaccination using imported vaccines, strict smitary measures and restricted movement orders are invoked. Portugal is now a participant in the furopean Commission for the Control of Foot-and-Mouth Disease and is in the process of establishing a foot-and-mouth disease institute for typing and vaccine production. The disease is estimated to be one of the most costly among those existing in Fortugal.
- (h) Brucellosis Brucellosis, particularly that caused by Brucella moletensis, is common throughout Portugal. The association of people with coats and the contact with rew rilk have resulted in hundreds of human cases of this disease.

 An eradication program has been established but little progress has been made since CONFIDENTIAL

the tests for the disease in goats is unreliable and an effective caprine vaccine has not been developed. Brucellosis in cattle, while less serious, is still a major disease problem and one for which there appears to be little immediate hope for effective control. Some advances have been made in testing cattle and vaccinating calves in recent years. Incentive pay for high quality milk from hards free of brucellosis and other diseases has materially reduced the incidence of infection in 1/9/1h/19/31/35/16/50/

- (5) Cysticercosis Cysticercosis is widespread in swine and moderately prevalent in cattle. Since there is little control over stray dogs in slaughter areas and no program for antihalmenthic treatment of these animals exists, the disease is continuously perpetuated. The lack of efficient meat inspection systems and the common habit of eating raw or partially cooked sausage make this disease a serious threat to the human population.
- (6) Remeastle disease Newcastle disease seriously interferes with the development of an efficient poultry industry. The cisease is particularly difficult to control in small farmyard flocks where regular vaccination is impractical and difficult. Cince Portugal is deficient in cereal grains that can be used for poultry feeds, the outlock for modern poultry production system under which Remeastle disease prevention is practical appears unlikely. Louses from this disease seriously reduce the availability of eggs and poultry meat for human consumption. The stimulation of efficient poultry production in the Asores has occurred through the offer of the United States Hilitary services to purchase local poultry products and a disease control program, including vaccination against Newcastle disease, is $\frac{9}{15} \frac{19}{19} \frac{31}{31} \frac{31}{36}$ undercay.

- b. Other important snimal diseases Other important animal diseases in

 Portugal are scables (Psoroptes communis ovis), mistematoris and anthrax in sheep,

 pasteurellosis, hog cholera and erysipelas in swine, contagious bovine plauropneumonia,

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 babesissis, anthrax and mastitis in cattle.
- D. Veterinary medical organization and administration
 - 1. Civilian
- a. Or; anigation -- The national veterinary services of continential Fortugal are the responsibility of two Directorates, a General Directorate of Livestock Services reporting through the Secretary of Agriculture to the Ministry of Economy and a Mational Department of Livestock Production reporting to the same Ministry Figure 1 through a Scoretary of Commerce. The first Directorate, the one concerned with the chief veterinary functional activities, is composed of three main departments, central services, regional services, and investigation and experimental services. The Central Services Department has five vain sections, dealing with (1) sanitation, (2) public health, (3) snimel improvement, (4) documentation, economic studies and inquiry, and (5) technical assistance and extension service. It has also an administrative and a technical council. Veterinary a raices of ports and frontiers, which includes fishing ports and quarentine stations, are added responsibilities of this department. The Optional Services Department's sectional responsibilities include, (1) two delegations or committees for import-export, (2) livestock administration, (3) four island veterinery commit ees, (h) regional laboratories for veterinary a rvices, and (5) animal husbandry. The Investigation and Experimental Service Department supervises (1) the Mational Laboratory for Veterinary Investigation, (2) the Mational Animal Rusbandry Station, (3) Livestock Improvement Stations,

(h) Animal Genetics Stations, (5) Poultry Stations, and (6) Animal Technology Stations.

The National Directorate of Livectock Production has one technical department with

several subsections dealing with consercial problems of various livestock products.

The veterinary services organisation in the Madeiras and Azores varies only slightly in that administrative affairs are handled differently.

The National Veterinary Services have no connection with or control over the Overseas Veterinary Services, which have responsibility for veterinary affairs in the Colonies.

The National Veterinary Services rely on municipalities, both on the continent and on the outlying inlands to provide the essential health and sanitation services to individual farmers and to perform the meat and food inspection duties. Only a few private practitioners exist in continental Portugal and none are active in the Azores.

The Directorate of Livestock Services' share of the national budget amounted to \$1,835,191, which was 0.05 percent of the total continental budget in 1960. This, however, does not represent the true figure for veterinary expanditure since the Directorate of Livestock Production was allocated a separate appropriation, municipalities contributed to veterinary services and the budgets for the Acores and Hadeiras are completely separate.

b. Legal controls

(1) Licensure — A degree in Veterinary Medicine is the minimum requirement for appointment to any public post or function. For appointment to the Mational Veterinary Investigation Laboratory a candidate must participate in an open competitive examination.

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- (2) Quarantine The General Regulations on Animal Health, published in 1839, is the basic law coverning inspection and quarantine of snimals and products of animal origin. It has been amended many times by Decree-Laws; the latest, No. 39,209, in 1953, specifically applies to food hyriene, animal quarantine and import-export certification of enimals and animal products
- (3) Inspection Generally adequate regulations have been enacted or decreed to provide legal force to sanitary inspection's import requirements and to control animal diseases through notification and quarantine. Severe penalties can be levied for infraction of regulations. Enforcement of regulations is variable from tim to time and place to place.
- c. Professional veterinary organization -- Portugal has two professional voterinary associations. The Portuguese Society for Veterinary Science (Sociedade Portuguesa de Gionolas Veterinarias) and a National Association of Veterinary Surgeons. The first is exclusively scientific in nature and membership is voluntary. In addition to publishing the veterinary scientific journal (Revista Ciencias Veterinarius), the Society has local representation on the Technical Council of the Directorate of Veterinary Services and close relationship with the Ministry of Education. The National Association of Veterinary Surgeons was established in the interests of the profession and to regulate private practice. Hembership is voluntary, but it is a requirement for teaching or eligibility for municipal competitive examination
- d. Veterinary research while veterinary research activity offers considerable prestige and Fortuguese veterinarians as a group seek to expand and develop research programs, the quality and achievements of their efforts have not been outstanding. Saview of research literature over the past few years reveals little ingenuity or originality. CONFIDENTIAL

- f. Therrency veterinary services -- No organised sector of the veterinary services exists for emergency situations. Since the services as a whole are highly nationalized, it would seem that emergency organisation to combat serious epimotics would be practical. However, the introduction of foot-and-mouth disease and more recently a serious outbreak of African swine fever have shown that Portural is unable to effectively mobilize its professional and auxiliary staff to control such plagues.
- 2. Military veterinary services -- A Military Veterinary Corps, currently staffed by thirty officers, is primarly engaged in food semitation for military units of Department of Defense. The Portuguese military establishment maintains only
- a few horses and a small police dog unit, and, therefore, requires little veterinary services in this field. The military veterinary services are not engaged in any research activity.

E. Veterinary menpower

Although the total veterinary manpow r ratio to livestock population is better than in many European countries, it is apparent from the animal disease situation that organization, distribution and utilisation of veterinary staff and technicisms, are that inefficient. Portuguese authorities state/a shortage of veterinarisms exists and offer this as a factor in the continuing animal disease problems.

Fortuguese veterinary authorities listed seven hundred fifty-four veterin rians active in 1959 and defined their distribution as follows:

1) Government officials (including those employed by Municipal or Corporative Organization	n) 186
2) Diagnostic and Research Institutes	67
3) Municipal Veterinary Officers	250
h) Tea hing Staff of the Higher School of Veteriory Medicine	16
5) Army Veterinary Officers	35
6) Private Practice Total	200 75h

Note: Some of those listed in Frivate Practice are engaged as part-time Municipal employees.

The Acorca havelh veterinarians in service categories 1 and 3 above.

Veterinary training is the responsibility of the Higher School of Veterinary

Medicine (Excla Superior de Medicina Veterinaria) in Lisbon (38-h3N - 9-03w).

Admission is conditional on passing a qualifying examination in addition to

completion of normal primary and secondary educational requirements.

The veterinary course spans five years and successful completion plus six months

approved official service leads to a degree and professional status of Veterinary

Surgeon. A doctorate requires completion and defense of a thesis. A course in

Tropical Veterinary Medicine is open to Veterinary surgeons and a diploma in this

curricylum is required for practice in Portuguese overseas territories.

F. Veterinary medical facilities

The organization of veterinary medical facilities is an extremely complex system in Portugal. Many laboratories, particularly of the smaller diagnostic type, are scattered, with a parately directed government divicions, and their responsibilities are not clearly defined.

The most important veterinary facility in the National Laboratory for Veterinary

Inv. stigation, formerly the Central Laboratory of Veterinary Pathology, Lisbon,

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responsible for, (1) animal discase diagnosis, (2) preparation of biologicals and pharmacouticals, (3) biological and pharmacoutical testing, (4) research and special teaching. This laboratory has two mein branch units at Oporto (41-098 - 8-378) and Evora (33-348 - 7-548), concerned mainly with diagnostic procedures, and four others situated in Viscu (40-398 -7-558), Hirandela (41-298 - 7-118), Costello Branco (39-498 - 7-308), and Faro (37-018 -7-568).

A large equipment and supply depot is maintained in Lisbon to supply regional veterinary offices.

A system of 2h regional voterinary offices operating in 18 provinces under the Regional Services Department, provides minor diagnostic services, supply, distribution and direction over municipal services.

Quarantine facilities under the Regional Service Department have been established at Lisbon and Oporto.

Numerous Cootschnical Stations doing some veterinary work are scattered throughout the country.

Many of the responsibilities of the various subsections appear to overlap and a distinct duplication in services sometimes occurs.

The Higher School of Veterinary Medicine, Lisbon, cooperates with the government laboratories in some research and diagnostic studies.

Private veterinary practice is extremely limited in Portugal because most

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preventive enimal disease measures are supported and provided by the government.

G. Veterinary supplies and materials

The National Laboratory for Veterinary Investigation or its main branch units produces the major part of biological requirements in Portugal and compounds some of

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the pharmaceuticals used. Idmited amounts of biological and pharmaceutical products are produced by Fortuguese firms; however, most of this type material plus anti-biotics are imported from other European countries and distributed either through government veterinery stations or through private a encies dealing in this type product.

All of Portugal's foot-and-mouth disease vaccine has been imported, mostly from the Metherlands, but plans are underway to establish a special laboratory for local production. Portugal has access to sufficient biologicals and drugs for its somewhat limited animal health programs. Any significant increase over that currently used is dependent on an increase in government supported or sponsored animal health programs.

- H. Reference data -- Not included in this report.
- I. Comments on principal sources
- 1. Evaluation A great deal of current information on veterinary services and animal health is readily available. Information relative to section B-1 and 2, Topography and climate and Socio-economic pattern, as it affects animal health, is quite complete. The information on the various aspects of Mutrition, B-1, from Portuguese cources, is extensive but often refuted by reports from outside sources.

 Section C, in connection with animal diseases, lacks specific detail simply because Portugal reports these data in general terms only.

The reports on veterinary organization, manpower, facilities and supplies, are numerous and the Portuguese information is substantiated by reports from foreign observers.

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